

U.S. DEPARTMENT OF AGRICULTURE

Memphis, Tenn. 38122 January 14, 1977

These reports are published bi-weekly during the harvesting season and will be summarized in a comprehensive report at the end of the crop year. A detailed description of the tests shown in this report may be found in the summary report for the previous season. These reports are available on request from the Standardization Section, Cotton Division, Agricultural Marketing Service, U. S. Department of Agriculture, 4841 Summer Avenue, Memphis, TN 38122.

^{1/} Summary of Cotton Fiber and Processing Test Results, Crop of 1975, USDA, AMS, Cotton Division, May 1976.

Discussion of Test Results

Short staple cottons tested through January 7 from the Southwestern Area are longer, coarser and weaker than last year, according to the Cotton Division, Agricultural Marketing Service, USDA. Shirley Analyzer nonlint content is lower, while picker and card waste is higher than a year ago. Yarns spun from these samples are weaker but have fewer imperfections. Spinning potential yarn number is a little lower.

Average test results for all medium staple samples tested show slightly shorter and stronger fibers than a year ago. Shirley Analyzer nonlint content is lower, but picker and card waste is higher. Yarns spun from these samples are stronger and have fewer imperfections compared to a year ago at this time. Yarn appearance is slightly lower as is the spinning potential.

Medium staple samples tested from the Southeast show fibers to be slightly longer, more uniform, coarser and stronger than a year earlier. Shirley Analyzer nonlint content is slightly lower. Yarns spun from these samples are stronger with fewer imperfections. Average spinning potential is higher.

South Central medium staple samples tested are longer, less uniform and slightly finer than a year ago. Samples are stronger at zero gage tests. Shirley Analyzer nonlint content is lower, while picker and card waste is higher than a year ago. Yarn skein strength is slightly stronger and imperfections are fewer than a year earlier. Spinning potential is lower.

Southwestern medium staple samples tested are coarser and more uniform than a year earlier. Shirley Analyzer nonlint content is lower, while picker and card waste is higher than a year ago. Yarns have a higher appearance index and fewer imperfections.

Medium staple samples from the West have slightly shorter and weaker fibers than a year ago. Picker and card waste is higher than a year ago. Yarns spun from these samples are weaker and have lower appearance grades. Yarn imperfections are fewer. The spinning potential yarn number is lower.

Long staple samples tested through January 7 this season are longer, more uniform and coarser than a year earlier. Fiber strength is about the same as last season. Shirley Analyzer nonlint content and manufacturing waste are lower this season. Yarns spun from these samples are stronger and have fewer imperfections. The spinning potential yarn number is slightly higher than it was last season.

Long staple cottons tested from the Southeast are longer and more uniform than a year ago. Fibers are coarser and stronger. Shirley Analyzer nonlint content, picker and card waste, and comber waste are all lower than last season. Yarn quality is better than a year ago.

No additional long staple lots were received from the South Central Area during this test period.

Long staple samples from the Far West have longer, more uniform and slightly coarser fibers than in the previous season. Shirley Analyzer nonlint content and picker and card waste are higher than a year ago but comber waste is lower. Yarn strength is higher. Yarns have about the same appearance grades as last season but fewer imperfections. The spinning potential yarn number is much higher.

American Pima extra long staple samples tested through January 7 this season have about the same length, strength and mike properties as a year earlier. Picker and card waste and comber waste are both lower than last season. Yarns spun from these samples have about the same quality characteristics as a year ago.

Averages of fiber and processing tests from selected gin points in the United States through January 7, 1977 \$1/

Table 1. -- Cotton:

| Processing test results | th | ppear-Imperf- | Ret. Ret. Ibs. Index 22s Carded | 107 | 22 3.4 6.3 97 97 25 53 23 3.2 6.3 106 98 20 57 | 23 3.1 5.7 105 101 21 59 23 2.7 6.3 107 99 17 55 1 | 22 3.7 6.2 103 87 32 56 22 3.4 6.7 103 93 24 55 | 26 2.3 5.5 124 93 23 69 25 2.2 5.8 119 89 19 66 | 23 3.1 5.8 108 97 23 60 24 2.8 6.2 110 95 19 58 | 1 0.5 0.5 4(22s) 5 2 3 |
|-------------------------|--------------|-----------------|------------------------------------|---------------------------|---------------------------------------------------|-------------------------------------------------------|----------------------------------------------------|----------------------------------------------------|----------------------------------------------------|--------------------------------|
| Processing to | | Skein str. | <u>Lbs.</u> 22s | 97 89 | 97 | 105 | 103 | 124 119 | 108 110 | lt (22s) |
| - | | | | | | | | | | |
| S | | 1/8" gage | G/tex | 21 21 | 23.28 | 83 83 | 55 55 | 26 | 23 24 | 1 |
| results | Fiber | Zero gage | Mps1 | 98 98 | 833 | 88 88 | 89 83 80 83 | 89 89 | 86 87 | ત |
| Fiber test | Mike | ness | Rdg. | 3.6 | 44 | 44 | 3.7 | | 44 | 0.8 |
| FI | Fibrograph | 50/2.5 unif. | E | 45 45 | 44 42 | ††† | 43 45 | 45 45 | 45 45 | Q |
| | Fibr | 2.5% spen | Inches | 78. | 1.07 | 1.10 | 1.06 | 1.12 | 1.09 | 0.05 |
| | Lots | tested | S | 53 54 | 7 7 7 8 7 | 114 | 34 | 68 | 259 | |
| | Staple group | Crop year | Short Staple: | Southwest 1975 1976 | Medium Staple: Southeast 1975 1976 | South Central 1975 1976 | Southwest 1975 1976 | West 1975 1976 | U.S. Average 1975 1976 | Significant dif- ference 2/ |

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Averages of fiber and processing tests from selected gin points in the United States through January 7, 1977 Table 1. -- Cotton:

| | | - | Fiber ' | Test R | Results | 100 | | | | Proc | Processing | Test k | That Regults | | | |
|-----------------------------------|------|--------|------------------------------------------------|-------------|--------------------|------------------|----------------|------|---------------|-------------------|------------------|----------------|--------------------------|----------------|------------|-----------|
| Staple group, | 1 | Length | th | | Strength | $i \leftarrow i$ | SA | D&C | Comber | | Yarn | rn Quality | lity | | | |
| Crop year | Lots | Span | Unif Mike | | Zero] | 1/8" gage | Non- lint | d) | Waste | Strength | bed | Apper | Appearance carded combed | Imprfctns | ctns | SPY |
| | No. | In. | Pct. Rdg. | | Mpsi C | G/tx | Pct. | Pct. | Pct. | Lbs. I | Lbs. Indx | Indx | Indx | No. | No. | No |
| Long Staple: Southeast 1975 | 17 | 1.09 | 43 | 4 - | 82 | 83 | 3.7 | 9.6 | 18.8 | 88 | s Carde | 110 110 | nbed Yarn | S El | 10 | 75 |
| South Central | 9 | 1.14 | 47 | 4. 0. 4 | 0 88 | S S | ∞. | 0 | 15.8 | 115 | 136 | 104 | 120 | 02 05 | ω σ | 99 09 |
| 1976 West | 3 3 | 1.12 | 45 | 3.7 | 91 | 8 | 4. 6 | 0 0 | 20.3 | 109 | 137 | 97 | 103 | 13 | | 57 |
| 1976 | -5- | 1.19 | 22 | 0.00 0.4 | 833 | N 02 | 4.0.4 | 9.1 | 13.4 | 138 144 147 | 158 | 87 87 87 | たん | 3.0 | 25 16] | 89 105 |
| 1975 1976 | 92 | 1.13 | 1 ⁺ 1 ⁺ 1 ⁺ 2 | 3.8 | 89 | 2¢ 5¢ | w w ~ ~ ~ | 9.8 | 17.6 | 113 | 135 | 88 | 109 | 2 8 | 15 | 70 |
| Extra Long Staple: | | | | Array | | | | Amer | American Pima | ma | | 50's (| Combed | Yarn | | |
| 1975 | 16 | 1.47 | 31 | 3.6 | 104 10 2 | 34 | 0, 0, 0, 0, | 7.5 | 18.4 15.8 | | 67 | | 111 | | 0 0 | |
| | | | | | | | | | | | | | | | | |
| Significant Difference 2/ | | 0.02 | 0 | 0.0 | α | н | 0.5 | 0.5 | 0.5 | μ μ(22s) β | 4(22s) 2(50s) | 5 | 5 | Q | Q | 8 |

Minimum differences considered to be significant for comparisons in this table. $\frac{1}{2}$ Based on a limited number of samples of modal quality $\frac{2}{2}$ Minimum differences considered to be significant for c

Table 2 --Cotton, American upland short staple: Quality characteristics by production areas, crop of 1976

| ı | ı | | ı | | | | | - 6 - | | | | | | | |
|------------------|------------------|------------------------|--------------|----------------------------------------------|--------------------------|------------------|--------------------|-----------------------------|------------------------------|-------------------|---------------------|----------------------|-------------------|-----------------------------------------|---------------------------------------------------------------------------------|
| | Spin. | Poten- tial | 욌 | 40 41 | 0+ | 43 | 56 | 54 | 52 | 45 | 704 | 64 | 3.8 | 33 40 39 | 41 |
| | Imprfect'ns | 22sor 27 tx | 외 | 24 | 12 | 14 | 20 | 11 | 19 | σ | 10 | 45 | 12 | 100 | Ξ |
| Yarns | Imprf | 8s or 74 tx | 윈 | ‡ ‡ | 19 | 22 | 36 | 26 | 35 | 19 | 21 22 | 11 | 19 | 20 20 20 | 21 |
| Carded | ance | 22sor 27 tx | 윙 | 100 | 110 | 110 | 110 | 011 | 900 | 110 | 110 | 80 | 120 | 1100 | 110 |
| 1 | Appearance | Ss or 74 tx | 8 | 120 | 120 | 130 | 120 | 130 | 120 | 120 | 110 | 100 | 120 | 130 130 130 | 130 |
| Test Results | tion | 22s or 27 tx | Pct | 44 | 5.6 | 0.9 | 6.5 | 6.9 | 6.9 | 56 | 5.5 | 7.3 | 5.8 | 5.6 | 5.9 |
| Processing Te | Elongation | | Pct | 7.3 | ENT 6.4 | ENT 7.1 | ENT 7.5 | ENT 8.1 8.5 | ENT 8.3 8.3 | ENT 6.6 | ENT 6.1 6.4 | ENT 8.5 | ENT 7.2 | ENT 6.5 6.4 | 6 - 3 |
| Proces | rth | 22s or 27 tx | Lbs | PERCENT 93 7. 88 7. | PERCENT 90 6. | PERC 93 | 1 06 7- | PERCENT 100 8. | 99 8- | PERCENT 87 6.6 | 93 6. 87 6. | PERCENT | PERCENT 90 7. |) PERC 77 88 86 | 5 PERCENT 91 6- |
| | Strength | 8s or 74 tx | Lbs | 100 284 274 | 100 | 285 | 313 1 | 303 299 | 75 304 299 | 270 | 100 272 268 | 95 297 | 278 | 100 248 274 273 | 272 |
| | | P & C Waste | Pct | 7.6 | 6.2 | 7.1 | 6.9 | 6.1 | 7.3 | 6.1 | 6.6 8.8 | 7.9 | 7.8 | 7.7 6.1 6.5 | • • |
| | Color | Stock Yel | S | mM | е | 8 | * | N W | N N | m | m m | 7 | 2 | m m 🖈 | ю |
| | သိ | Raw Gra | 일 | mm | 2 | М | 6 | mm | m m | 2 | 6.4 | 2 | m | 642 | 8 |
| | V. | Non- lint | Pet | 9.4 | 2.6 | 3.3 | 5.1 | 3.0 | 3.3 | 2.8 | 3.4 | 4.6 | 4.0 | 3.3 3.1 | 4.5 |
| ts | E10n- | gat'n 1/8" | Pct | 611 8.1 7.6 | LX571 6.8 | 7.1 | M70 6.8 | ER 909 7.7 7.9 | ER 909 7.4 7.6 | 57 | LX571 6.5 6.3 | ER 18 | R 31 | 57 6.1 7.7 | 57 |
| Test Results | er | 1/8" | G/tex | LANKART 20 21 | LANKART 21 | STRIPPER 22 | MORCOT 22 | PAYMASTER 22 7- 22 7- | PAYHAST 22 22 22 | LANKART 20 | LANKART 21 21 | PAYMAST (| STRIPPE 21 | LANKART 20 20 20 20 | L ANKART 22 |
| Fiber T | Fiber | Strength | Mpsi | 79 | 86 | 89 | 82 | 81 76 | 80 | 92 | 89 | 81 | 06 | 8 8 8 72 8 | 9 8 |
| | | Mike | Rdg | 3.8 | 5.5 | 3.4 | 3.1 | 3.1 | 3.1 3.1 | 5.2 | 4.5 | 2.6 | 4.0 | 5.0 | 5.3 |
| | tal | raph Unif | Pet | 41 | . 14 | 44 | 45 | 11 | ‡ ‡ | 9 | 4 4 4 4 | 4 | 94 | 4 4 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 | 46 ark |
| | Digital | E a d | | 76.0 | 96-0 | 0.91 | 76.0 | 1.00 | 1.00 | 96*0 | 0.96 | 0.95 | 0.87 | 0.91 0.92 0.99 | AHOMA RANDFIELD SLM LT SP 42 31 0.97 4 Reduced from 42 because of bark |
| | | Stple | 32s AR EA | 32 | 32 | 30 | 1/32 | 32 | 32 | 31 | 31 | /31 | 30 | 31 | 31 becau |
| ea, | ion | | A A | 15 52 1/31 52 1/31 | 45 | 33 | 52 <u>1</u> √ | 33 | 52 1/32 43 2/31 | 32 | 245 | 53 3/31 | 42 | 452 | 42 |
| Production Area, | Classification & | Sample Number Grade | 000 | × | | | ۵ | | | SP | SP | Z | SP | SP | SP from |
| lucti | essif. | Grade | ST | | BURN | SP | NEY LT S | NZO SP SP | UBBOCK LM LT SP SLM SP | × L1 | 55 | ERTO | ALT | ERNON SLM LT SLM LT SLM LT | AHOMA RANDFIE SLM LT Reduced |
| Prod | Cls | | SOUTHWEST | NORTHWEST ANSON 2 LM LT S 3 LM LT S | BURKBURNETT SLM LT SP | HART 3 MIO SP | LOCKNEY 3 LM LT SP | LORENZO MID SP SLM SP | LUBBOCK LM LT SLM SP | CLNEY 1 MIO LT | RULE SLM SLM | SILVERTON 2 LM SP | TULIA 3 SLM LT | > | 3.5 |
| | | No | Sou | NOR 2 | 3 8 | Ψ. | 3 " | ے ع | 326 | 7 | α N w | 7 | | 125 | 3 |

1) Reduced from 42 because of bark 2/ Reduced from 33 because of bark 3/ Reduced from 43 because of bark

Table 3 --Cotton, American upland medium staple: Quality characteristics by production areas, crop of 1976

| | | 1 | Spin. Poten- tial | No | 1 | 7 | 20 | 49 | | 09 | 63 | 51 | | 4.4 6.7 | 45 | 45 | 51 | |
|------------------|------------------|-----------------------|-------------------------|-------------|---------------|-------------------------------------|------------------------------------|----------------------------|-----------|-------------------------------|--------------------------|------------------------------------|-----------|----------------------------------------|-------------------------|---------------------------|-----------------------------------------------------------------------------------------------------------------|--------|
| | | Impresot tos | 50s or | 12 tx 18 | ŀ | 29 | 12 | 12 | | 20 | 11 | 12 | | 22 | 17 | 52 | 940 | |
| | Yarns | Impre | 22s or | 27 tx No | ł | 35 | 11 | 16 | | 29 | 15 | 16 | | 29 | 21 | 57 | 52 | |
| | Carded Ya | nce | os or | 1 | l | 09 | 80 | 70 | | 70 | 70 | 80 | | 02 | 80 | 09 | 09 | |
| | Results - Ca | Appearance | ᆲᇈ | No No | l | 02 | 001 | 100 | | 90 | 100 | 06 | | 90 | 06 | 70 | 70 | |
| | Test Resu | ation | 50s or | Pet | | 5.1 | ; | 4 8 8 | | 4.3 | 4.3 | 4 • 3 | | 4.5 | 4.6 | 4.6 | 4 4 | |
| | Processing Te | Strength Elongation | 9 2 | | | 90 PERCENT 100 31 6.4 | 95 PERCENT 101 32 6.3 | 80 PERCENT 110 36 6.5 | | 80 PERCENT 108 35 6-2 | 95 PERCENT 117 39 5.6 | 70 PERCENT 95 30 6.2 | | 70 PERCENT 93 30 6.J 102 33 6.J | 75 PERCENT 99 32 6.1 | 100 PERCENT 101 34 6.4 | 100 PERCENT 106 35 6.1 108 35 6.7 | |
| | | ρ 2 | ه د | Pet | | 7.4 | 6.1 | 5.7 | | 5.4 | 4.2 | 6.3 | | 8 • 1 8 • 2 | 7.2 | 7.5 | 8 ° 0 0 ° 8 | |
| | | Color | Gra Yel | 읡 | | 2 | m | 8 | | m | m | m | | 94 | 2 | • | νο ι ν | |
| | | ပိ မ | | 외 | | 2 | 7 | m | | 2 | - | m | | 4∙ m | - | * | 4 W | |
| | | S.A. | Non- Lint | Pet | | 5.2 | 3.0 | 2.4 | | 2.9 | 2-4 | 2.2 | | 3.2 | 3.0 | 4.2 | 5.8 | |
| 1 | Its | Elon- | gat'n 1/8" | Pet | | I NE 16 7.2 | INE 16 | INE 25 | | 201 7-1 | 417 5.6 | DELTAPINE 16 21 7.9 | | 7.4 | 7.3 | 312 * 6.6 | 5110 * 6.2 7.3 | |
| 4 | Test Results | Fiber | 1/8" Gage | 4 | | DEL TAP I NE | DEL TAP I NE | DELTAPINE 22 7 | | COK ER 23 | COKER 24 | DELTAP 21 | | 65A71 21 22 | GSA71 22 | COKER 23 | CCKER 24 22 | |
| E FOR | | Fiber | Zero | Mpsi | | 79 | 80 | 85 | | 80 | 16 | 78 | | 85 86 | 84 | 80 | 82 77 | |
| | 1 | | Mike | Rdg | | 3.1 | 4.2 | 4.0 | | 3. 8 | 4.6 | 8. | | д . Ф . | 4.3 | 3.0 | 3.3 2.9 00% in ar | |
| | | al | Unif. | Pet | | 45 | \$ | 43 | | \$ | \$ | 4 | | 24 | 94 | 39 | 40 40 han 10 | T. IT. |
| | | Digital Fibrograph | | 미 | | 66.0 | 1.03 | 1.05 | | 1.10 | 1.10 | 1111 | | 0.95 | 0.97 | 1.06 | 1.11 1.09 1, less t | 10 DST |
| ea, | uo | h | Stple | 32s | AREA | 51 33 | 42 33 | LE 43 33 | AREA | 51 34 | SE 14 | 45 34 | AREA | 431/32 522/32 | 41 32 | 431/35 | 431/35 533/34 for tests, | 00 000 |
| Production Area, | · Classification | Sample Number | No Grade Name & Code | | SOUTH CENTRAL | MISSISSIPPI MATER VALLEY 4 LM | TENNESSEE BRADEN 4 SLM LT SP | MCLEMDRESVILLE 3 SLM SP 43 | SOUTHEAST | ALABAMA PCUNDVILLE 3 LM | PRATTVILLE 3 SLM | GEORGIA SHELLMAN 3 SLM LT SP | SOUTHWEST | NORTHWEST TEXAS HALE CENTER 2 SLM SP 4 | LCCP 2 SLM | LUBBOCK 2 SLM SP | LUBBOCK 2 SLM SP 431/35 1.11 40 3.3 3 LM SP 533/34 1.09 40 2.9 *100% selected for tests, less than 100% in area | |

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Reduced from 42 because of bark Reduced from 43 because of bark

Table 3 --Cotton, American upland medium staple: Quality characteristics by production areas, crop of 1976--(Continued)

| | | | 1 | | | | | | - 0 - | | | | | | | | |
|-------------------------|-----------------------|-------------------------|-------|------|------------------------------------|------------------------|-------------------------|-------------------|------------------------|-----------------------------------------------|--------------------|-------------|----------------|-------------------|---------------------|------------------------|-------------------------------------|
| | Spin. | Foten- tial | 외 | | 46 | 53 | 41 | 45 | 55 | 76 | 72 | 78 | 79 | 73 | 16 | 14 | |
| | Imprfect'ns | or 50s or tx 12 tx | 외 | | 18 | 51 | 14 | 17 | 11 | 22 | 17 | 15 | 41 | 15 | 23 | 17 | |
| arns | Imprf | 22s or 27 tx | 외 | | 20 | 61 | 17 | 22 | 14 | 22 17 | 18 | 19 | 20 | 22 | 28 | 22 | |
| Carded Yarns | ance | 50s or 12 tx | 외 | | 70 | 0.2 | 70 | 70 | 70 | 70 | 70 | 02 | 70 | 70 | 9 | 02 | |
| 1 | Appearance Index | 22s or 27 tx | 윘 | | 90 | 06 | 96 | 06 | 90 | 06 | 80 | 80 | 80 | 80 | 70 | 80 | |
| Processing Test Results | tion | 50s or 2 | Pet | | 4.5 | 4.5 | 3.8 | 0.4 | 1.4 | 4 4 8 6 | 8 • 4 | 9-4 | 5.2 | 4.6 | 4-7 | 3.9 | |
| ssing Te | Elongation | 22s or 27 tx | Pct | | PERCENT 29 5.9 29 6.2 | PERCENT 33 6.2 | PERCENT 27 5.3 | PERCENT 30 5.5 | ENT 6.5 | 6.3 5.7 | PERCENT | ENT 5. d | .ENT 6.1 | PERCENT 42 5.3 | P ERC ENT 44 6.4 | PERCENT 32 5.4 | |
| Proce | gth | 50s or 12 tx | Tps | | | | | | PERCENT | PERCENT 47 6. 45 5. | | PERCENT | PERCENT | | | PERC 32 | |
| | Strength | 22s or 27 | Lbs | | 46 | 93 | 93 | 96 | 103 | 100 133 130 | 98 | 96 | 133 | 99 | 126 | 100 | |
| | ಿ % ೧ | Waste | Pet | | 6.2 | 4.9 | 7.5 | 1.9 | 5.6 | 5 . 8 5 . 8 | 5.3 | 4.0 | 5.4 | 5 .8 | 5.9 | 5.8 | |
| | Color Raw Stock | Yel | 외 | | m m | 2 | m | m | 2 | 6.5 | m | m | 2 | 2 | ~ | 2 | |
| | Co | Gra | 외 | | 10 | F4 | 2 | - | 0 | - 2 | 1 | 2 | - | - | 2 | 0 | |
| | S.A. | Non- Lint | Pet | | 3 2.3 2.1 | 2 - 2 | 3 2.6 | 1.1 | 1.5 | 2.0 | 1.7 | 3.0 | 3.2 | 2.7 | 2.2 | 2.0 | |
| t s | Elon- | gat'n 1/8" | Pet | | LLE 213 8.2 7.4 | NE 61 | LLE 21 5.9 | NE 61 6.6 | NE 16 8.2 | 5-12 5-7 5-4 | S J-2 6.1 | 5.9-2 | 5.9-2 | J-2 6-1 | 5.9-2 | NE 61 6.6 | |
| est Results | Fiber | 1/8" Gage | G/tex | | STONEVILLE 20 8.2 20 7.4 | DELTAPINE 61 22 7.7 | STONEVILLE 21 21 5.9 | DELTAPINE 23 6 | DELTAPINE 16 22 8.2 | ACALA S 27 27 | ACALA S | ACALA S | ACALA S | ACALA S | ACALA S | DELTAPINE 23 6. | |
| Fiber Te | Fiber | Zero Gage | Mpsi | | 77 | 81 | 85 | 85 | 82 | 97 | 16 | 90 | 87 | 89 | 89 | 84 | |
| | | Mike | Rdg | | 4.5 | 4.2 | 4° 8 | 5.1 | 4-4 | 3.8 | 4-2 | 4.3 | 3.7 | 3.8 | 3.7 | 4.8 | |
| | al | Unif. | Ret | | 11 | 7, | 4 | 45 | 77 | 4 4 5 5 | 45 | 24 | 94 | 45 | 45 | 44 | 2882 |
| | Digital Fibrograph | | 티 | | 1.06 | 1.08 | 1.04 | 1.09 | 1.11 | 1.11 | 1.12 | 1-14 | 1.15 | 1-12 | 1.12 | 1.06 | se of g |
| | | Stple | 32s | AREA | 3.5 | 35 | 34 | 35 | 35 | 36 | 36 | 36 | 36 | 35 | 35 | 35 | oeraus |
| Area, | ber | | | A | 31 | 41 | 41 | 31 | 21 | √115 211√ | 31 | 41 | 41 | 41 | 41 | 31 | n 41 1 |
| Production Area, | & Sample Number | No Grade Name & Code | | WEST | ARIZONA BOWIE 2 MIO 3 MID | CASA GRANDE | GILA BEND | RCLL 3 MIO | WENDEN 3 SM | CALIFORNIA CARUTHERS I SLM PLUS 3 LM | FIREBAUGH 1 MIO | FIVE POINTS | HUFON 3 SLM | LOST HILLS 3 SLM | SHAFTER 3 SLM | WEST MORL AND 2 MIO | 1/ Reduced from 41 because of grass |

| | Spin. Poten- | | No | | 57 | | 109 | | 97 | |
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| | t'ns | 50s or 12 tx | 왕 | | 10 | | 28 | 20 | 14 | 14 |
| arns | Imprfec | 22s or 27 tx | 원 | | 111 6 | | 37 20 20 | 25 | 91 8 | 17 |
| arded Y | | | 일 | | 110 | | 0 6 9 | 202 | 70 | 02 |
| lts - Ce | Appear Inde | ٠. | % | | 120 | | 90 | 06 | 100 | 08 |
| t Resu | ion | | Pet | | 5.3 | | 5.0 | 6.3 | 5.4 | 5.5 |
| ing Tea | Elongat | 22s or 5 | Pet | | 6.9 6.9 | | ENF 6.3 6.8 | 7.5 | ENT 6.5 6.0 | 6.5 |
| rocess | ч | S or 2 | Libs | | PERC: 35 | | P ERC 53 61 | 66 | | 60 |
| ď | Strengt | 22s or 56 | | | 95 102 123 | | 96 143 165 | 146 | 90 139 161 | 143 |
| | P & C | | Pet | | 6.4 | | 7.7 | 14.4 | 7.8 | 9.4 |
| | or Stock | Yel | No No | | ~ * | | ~ * | ~ * | 2 * | * |
| | Col Raw | Gra | No | | 1 | | 0 | - | 1 | |
| | S.A. | Non- Lint | Pet | | 2.2 | | 4.0 | 5.1 | 3.6 | 3.6 |
| ts | Elon- | 1/8" | Pet | | 310 | | V-11511-V 6.7 | 6.2 | 1517-70 | 4.9 |
| st Resul | er | 1/8" | Gage G/tex | | COKER 24 | | ACALA 26 | 59 | ACALA 26 | 29 |
| iber Te | Fib | Zero | Gage | | 79 | | 84 | 06 | 85 | 8.7 |
| ഥ | | Mike | Rdg | | 4.6 | | 3.5 | 3.3 | 3.5 | 2.8 |
| | al | apn Unif | Pet | | 45 | | 41 | 45 | 2 | 44 |
| | Digit | | In | | 1.10 | | 1.18 | 1.19 | 1.18 | 36 1.19 |
| | | Stple | 32s | IREA | | AREA | | 37 | | |
| Area, | toron | | | | 41 | | 41 | 50 | 41 | 20 |
| Production | Classiica & | | | OUTHEAST | ILABAMA ALBERTA 3 SLM | EST | IEW MEXICO TULAROSA 2 SLM | 3 LM PLUS | WEST TEXAS CLINT 2 SLM | 3 LM PLUS |
| | Production Area, Fiber Test Results Processing Test Results - Carded Yarns | Fiber Test Results Processing Test Results - Carded Yarns P&C Strength Elongation Appearance Imprfect'ns Index | Production Area, Classification Bigital Simple Number Fiber Sample Number Fiber Sample Steple 2:5% Unif. Digital | Processing Test Results - Carded Yarns Processing Test Results - Carded Ya | Production Area, Classification & Bugital Sample Number Stple Stpl | Production Area | Production Area Processing Test Results Processing Test Results Processing Test Results - Carded Yarns Classification Classifica | Production Area, Production Area Processing Test Results Production Area Processing Test Results - Carded Yarns Classification Digital Strength Elongation Production Area Processing Test Results - Carded Yarns Classification Sample & Classification Digital Strength Riber Elongation Production Appearance Imprect Index Imprect Imprect | Production Area, Production | Processing Test Results |

* Comber Waste and Combed Yarn Data

| | Imprfect ns | 80s or | - 1 ₂ |
|----------------------------------------|---------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|
| | Imprf | 50s or | ۶ |
| Yarns | Appearance Index | Gra Yel Waste Waste 50s or 80s or 50s or 80s or 50s or 80s or 50s or 80s or 7 tx 12 tx tx 1 | Pet Pet No No No No |
| ombed | Appe | 50s o 12 tx | ļ ģ |
| Processing Test Results - Combed Yarns | Strength Elongation | r 80s or 7 tx | Pet |
| st Res | Elon | 50s o 12 tx | £ |
| ing Te | ıgth | Bos or 7 tx | I.bs |
| Process | Strei | 50s or 12 tx | Ibs |
| | Color Raw Stock P & C Comber | Waste | Et |
| | 2 % C | Waste | 놃 |
| | lor Stock | Yel | No No Pet |
| | Color Raw Sto | Gra | 욁 |
| | S.A. | Non- Lint | R |
| ts | Elon- | 1/8" gat'n Non- Gage 1/8" Lint | Fet Fet |
| Fiber Test Results | er gth | 1/8" Gage | G/tex |
| lber Te | Fiber Strengt | Zero Gage | Mpsi |
| H | | Mike | Rdg |
| | sy ch | ઇ | lst Is |
| | Array Length | UQL | 티 |
| | | Stple | 32s |
| Production Area, Classification | & Sample Number | Grade Name & Code | |
| | | N N | |

Table 5 -- Cotton, American Pima extra long staple: Quality characteristics by production areas, crop of 1976

| 1 | -1 | | 18 | .1 | | | | | | | | 10 - | |
|----------------------------------------|-----|---------------------------------|-----------------------------------------------------------------------------------------|-------|------------|-----------------------------|-----------|---------------|---------------|------------------------|------------|--------------------|-------------|
| | | Imprfect'ns | 80s o | | <u> </u> | | - | - | - | • | ~ | 4 | . 2 |
| | | Imprf | 50s or | 47 22 | [] | | - | 2 | ^ | | 7 | m | 2 |
| rns | | rance | 80s or | , S | ! | | 011 | 110 | 100 | | 011 | 06 | 100 |
| mbed Ya | | Appearance | 50s or | S S | <u>:</u> | | 011 | 120 | 110 | | 021 | 110 | |
| ts - 00 | | tion | 80s or 50s or 7 tx 12 tx | F | 1 | | • | 4.5 | 4.4 | | • | 6.4 | 4.7 |
| Processing Test Results - Combed Yarns | | Elongation | 50s or 80s or 50s or 80s or 50s or 80s or 80s or 12 tx 7 tx 12 tx 7 tx 12 tx 7 tx 12 tx | Pet | | u | 3 | 5.5 | 5.4 | u u | • | 5.6 | 5.7 |
| ing Tes | | lgth | BOs or | Ibs | 1 | ¥ | | الا غۇ | 35 | , == | 3 | π 36 | 37 |
| Process | | Strength | 50s or 12 tx | Ibs | | 100 PERCENT | 3 | PERCENT 66 | PERCENT 66 | 94 PERCENI | 5 | 85 PERCENT 9 67 | 100 PERCENT |
| | | Color Raw Stock P & C Combox | Waste | Pet | l | 100 | | 93 | 1000 | 94 | | 85 17.9 | 1000 |
| | | ت مع <u>م</u> | Waste | Pet | | 4.4 |) | 7-0 | 4.7 | 9-9 | | 7.2 | 6 • 2 |
| | T | or tock | Yel | ્ર | | • | | 10 | | ın | | 22 | |
| | | Color Raw Sto | Gra | 2 | | m | | | | _ | | 41 | 50 |
| | | | Non- Lint | Pet | | | | | , | | | 4 | m |
| | - | | | ŭ | | 2.9 | | 3.4 | 3.0 | 2.2 | | 4.2 | 1.7 |
| Lts | | Elon- gat'n 1/8" | | 킮 | | 5 7-1 | · | 7.9 | 5,7.1 | 7.8 | | 7-1 | 7.6 |
| Resu] | | | 1/8" Gage | G/tex | | PIMA S-5 | DIMA C. 5 | י נ | PIMA S-5 | MA S-5 | (| 17A 5-4 | MA S-5 |
| Fest | | Fiber Strength | | 1 | | PI 7. | 7 | 36 | PIM/ 34 | PIM/ | | 33 | 26 35 |
| Fiber Test Results | - | Stre | Zero Gage | Mpsi | | 105 | | 102 | 103 | 66 | | 104 | 102 |
| | | | Mike | Rdg | | 3.9 | | 3.9 | 3.6 | 3.5 | | 3.0 | 3.3 |
| | | Array ength | ζ | 욃 | | 31 | | 31 | 33 | 30 | | 32 | 29 |
| | 1 | Length | TO n | 티 | | 1.58 | | 1.52 | 1.44 | 1.47 | | 1.43 | 1.50 |
| | | | Stple | 32s | < | i | | - | -: | - | | | - |
| ea, | ; | н | St | M | AR EA | 94 | | 94 | 44 | 44 | | 44 | 9 4 |
| on Ar | | Numbe | Code | | | | | 4 | 4 | w | | 4 | 8 |
| Production Area, Classification | ન્ય | Sample Number | Grade Name & Code | | | SR A NO | 02 | | 7 | SN OS | AS | | 10 |
| Prod | | Sam | | | - | ARIZONA CASA GRANDE 2 | SAFFORO | | WENDEN | NEW MEXICO COLUMBUS | WEST TEXAS | | TORNILLO |
| | | | No | | WEST | ARII CA | S | m | 2 * | NE i | WES1 | £ | 3 |
| | | | | | | | | | | | | | |